

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P459290

Luminaire Tested: **GALN-SA7C-735-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459290  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA7C-735-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35715 lumens  
Efficiency: N/A  
Efficacy: 94.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

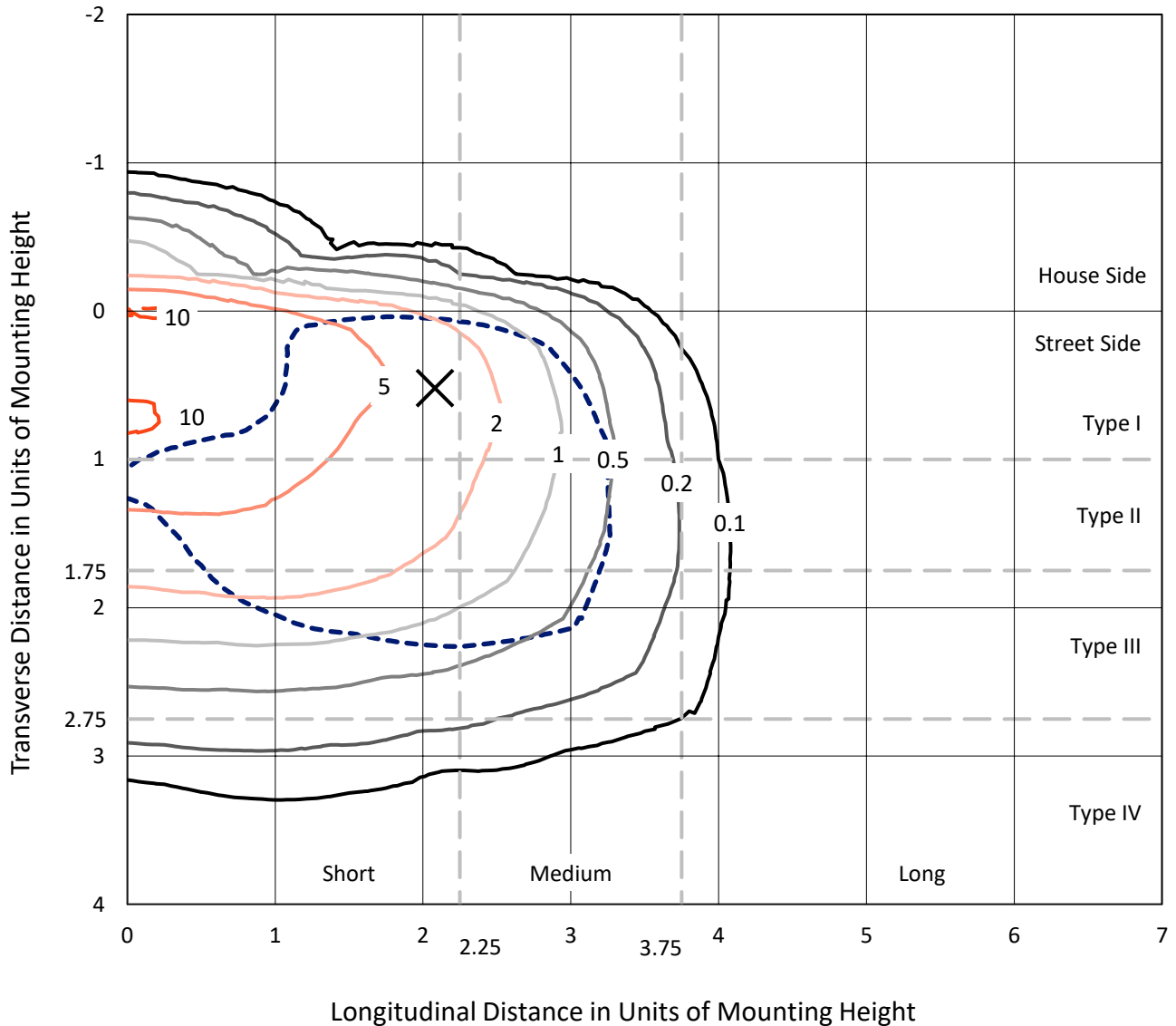
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

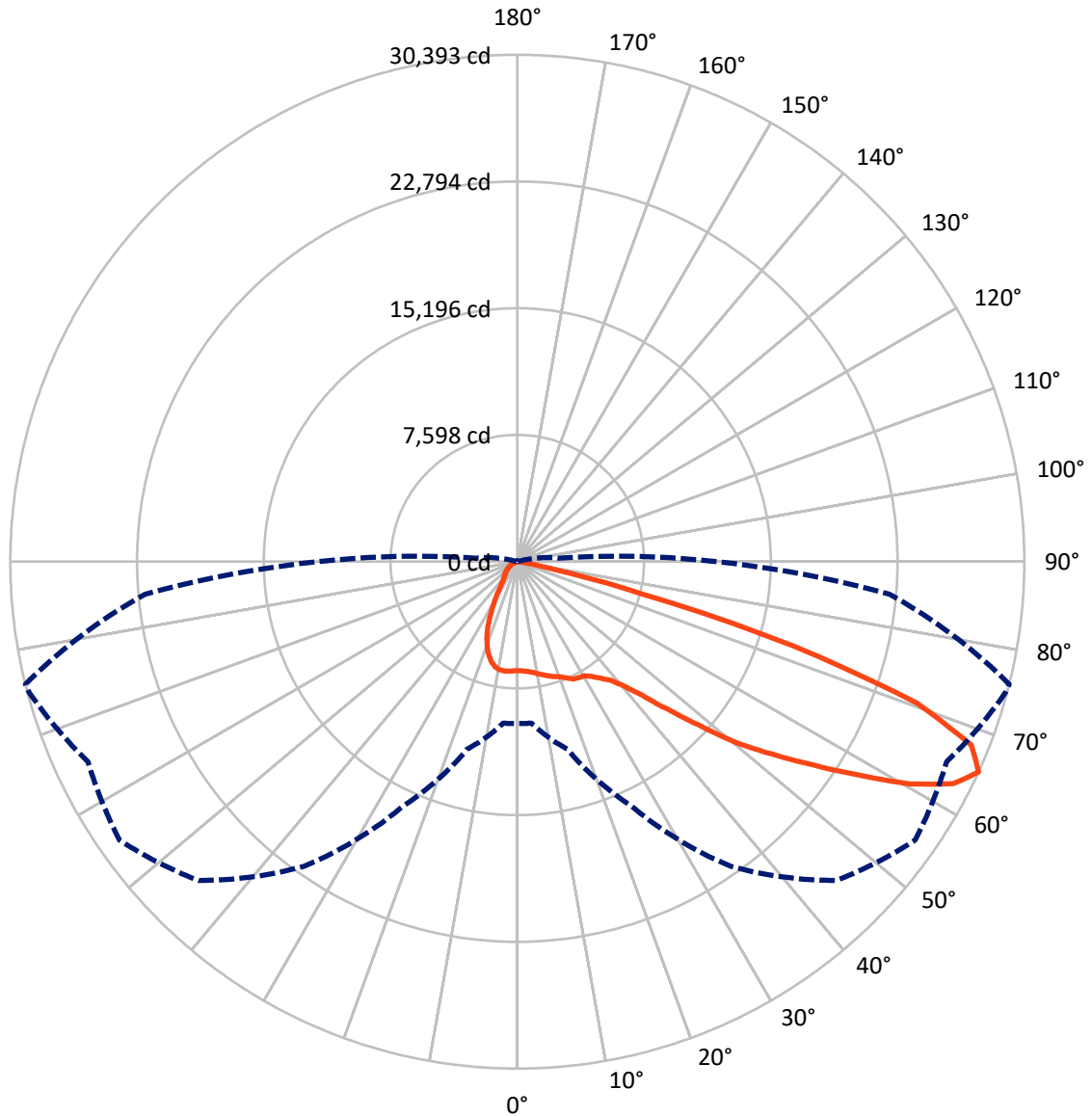
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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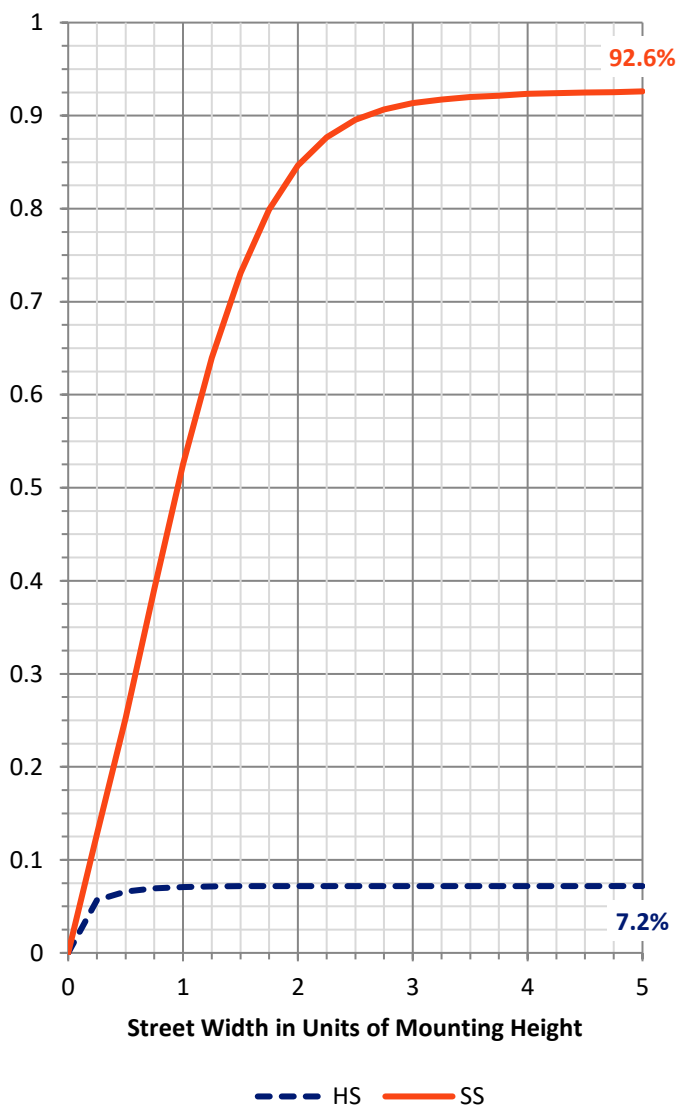
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2579.3	0.0	2579.3
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	33135.7	0.0	33135.7
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	35715.0	0.0	35715.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	538.2	1.5
10°-20°	1198.3	3.4
20°-30°	1931.0	5.4
30°-40°	3357.6	9.4
40°-50°	5548.2	15.5
50°-60°	8570.8	24.0
60°-70°	10466.2	29.3
70°-80°	3972.2	11.1
80°-90°	132.6	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	35715.0	100.0
0°-180°	35715.0	100.0

**Coefficient of Utilization**



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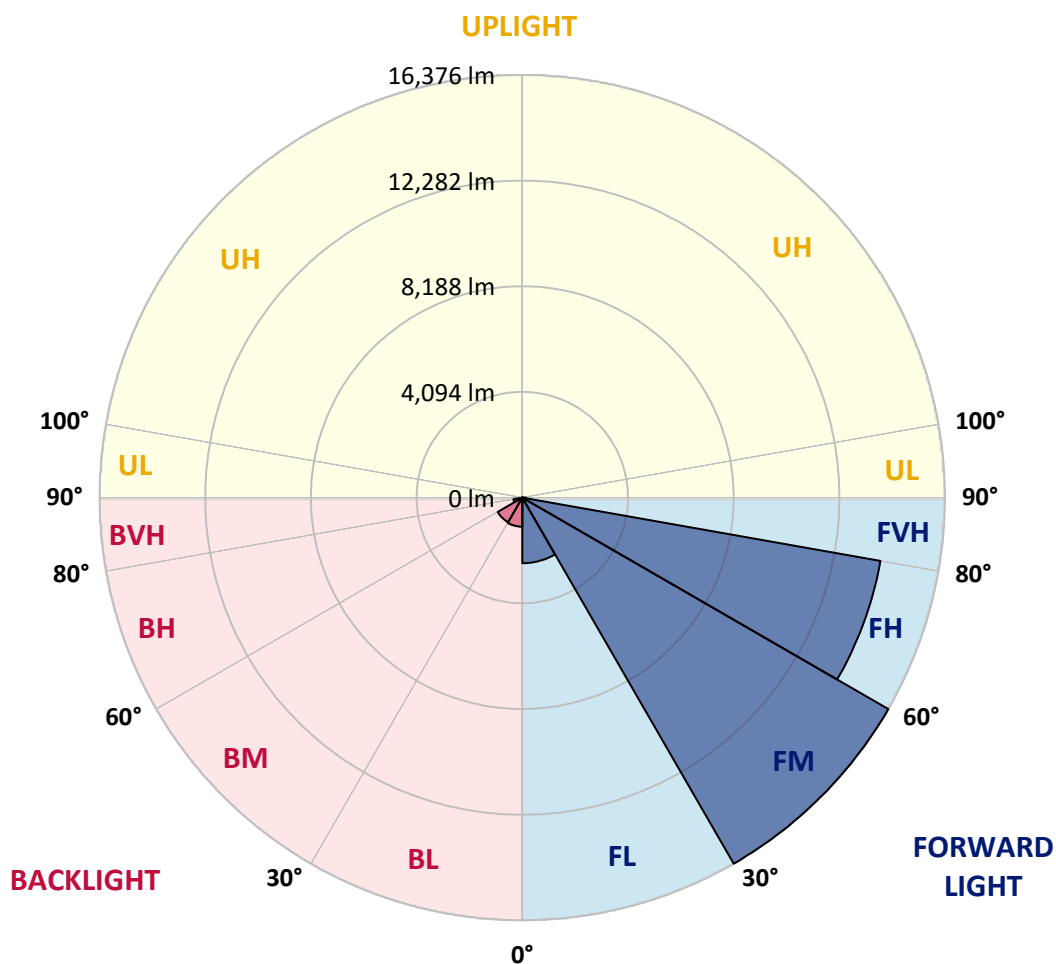
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2540.7	7.1			
FM	(30°-60°)	16375.9	45.9			
FH	(60°-80°)	14088.4	39.4			G5
FVH	(80°-90°)	130.7	0.4			G2/225
BL	(0°-30°)	1126.9	3.2	B3/2500		
BM	(30°-60°)	1100.7	3.1	B2/2500		
BH	(60°-80°)	350.0	1.0	B1/500		G1/500
BVH	(80°-90°)	1.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6533.4	6533.4	6533.4	6533.4	6533.4	6533.4	6533.4	6533.4	6533.4	6533.4	6533.4
2.5°	6243.4	6246.0	6261.1	6298.9	6356.9	6404.8	6445.2	6510.7	6556.1	6561.2	6576.3
5°	5812.2	5782.0	5812.2	5910.6	5998.8	6132.5	6296.4	6460.3	6606.5	6616.6	6687.2
7.5°	5328.1	5353.3	5401.2	5502.1	5668.5	5872.8	6109.8	6402.3	6679.7	6704.9	6843.6
10°	4836.4	4891.9	4970.0	5123.9	5355.8	5620.6	5943.4	6361.9	6795.7	6831.0	7070.5
12.5°	4382.5	4407.7	4503.5	4710.3	4997.8	5371.0	5817.3	6339.3	6924.3	6967.1	7312.6
15°	4034.5	4067.3	4150.5	4337.1	4657.4	5136.5	5713.9	6331.7	7050.3	7110.9	7554.7
17.5°	3969.0	3989.1	4024.4	4150.5	4430.4	4949.9	5620.6	6329.2	7171.4	7244.5	7779.1
20°	4238.8	4221.1	4185.8	4173.2	4327.0	4806.1	5552.5	6349.3	7287.4	7370.6	8016.1
22.5°	4914.6	4937.3	4730.5	4485.9	4435.5	4783.4	5542.4	6445.2	7471.4	7569.8	8280.9
25°	6349.3	6175.3	5852.6	5267.6	4826.3	4922.1	5655.9	6672.1	7685.8	7794.2	8520.4
27.5°	7935.4	7882.5	7380.7	6417.4	5595.4	5214.6	5857.6	6846.1	7756.4	7867.3	8656.6
30°	9493.7	9556.8	8981.9	7917.8	6712.4	5756.8	6046.7	6911.7	7819.4	7935.4	8830.6
32.5°	10938.6	11014.3	10509.9	9455.9	8028.7	6694.8	6372.0	7166.3	8084.2	8202.7	9120.6
35°	12075.8	12085.9	11705.2	10865.5	9466.0	7834.5	7075.6	7612.6	8442.2	8580.9	9428.2
37.5°	13119.8	13104.7	12658.3	11934.6	10663.8	8966.7	7960.6	8127.1	8850.7	8994.5	9872.0
40°	13893.9	13904.0	13760.3	13079.4	11780.8	10013.2	8661.6	8608.7	9536.6	9761.0	10517.5
42.5°	14410.8	14504.1	14574.7	14229.3	13185.3	11301.7	9738.3	9640.0	10726.8	10913.4	11430.3
45°	14829.4	14995.8	15348.9	15331.2	14534.4	12882.8	11216.0	11014.3	12413.7	12612.9	12592.8
47.5°	15134.5	15303.5	15888.5	16241.5	15802.7	14415.9	13074.4	12900.4	14428.5	14645.3	13876.3
50°	15290.9	15492.6	16239.0	16922.3	16793.7	15893.5	15192.5	15202.6	16861.8	17071.1	15364.0
52.5°	14925.2	15187.5	16425.6	17656.1	17905.7	17308.1	17177.0	17509.9	19027.8	19206.9	16708.0
55°	13757.7	14088.1	16170.9	18281.5	19194.3	18977.4	19431.3	19938.1	21395.6	21511.6	18087.3
57.5°	13018.9	13369.4	15419.5	18813.5	20742.5	21075.4	21794.0	22164.7	23839.0	24134.0	19670.8
60°	12396.1	12670.9	14801.7	18927.0	22316.0	23642.3	24340.8	24724.1	26854.8	27046.5	21413.3
62.5°	11359.7	11674.9	13757.7	18135.2	23107.8	25697.4	27144.8	26973.3	29187.3	29320.9	22482.4
65°	9693.0	9720.7	11639.6	16145.7	22290.8	27031.3	29114.2	28395.5	30301.8	30392.6	22399.2
67.5°	7234.4	7501.7	8954.1	12691.1	18828.6	25891.6	29752.1	28433.3	29598.3	29346.1	20621.5
70°	4659.9	4864.1	6069.4	8800.3	13576.2	21607.4	27636.5	26484.2	25977.3	25417.5	16879.5
72.5°	2150.9	2413.2	3605.9	5028.0	8051.4	15391.7	22434.5	21516.6	18697.5	17315.7	10729.3
75°	938.0	1003.6	1780.2	2652.7	3774.8	8139.7	14791.6	13356.8	8444.8	7713.5	4294.3
77.5°	572.4	615.3	933.0	1422.2	1482.7	3101.5	7968.2	5827.4	2609.8	2302.2	1165.0
80°	388.3	436.2	678.3	743.9	506.8	864.9	2990.6	1555.8	527.0	504.3	249.6
82.5°	189.1	239.6	501.8	416.1	219.4	277.4	869.9	332.8	153.8	143.7	88.3
85°	27.7	47.9	282.4	272.3	98.3	65.6	153.8	83.2	53.0	50.4	40.3
87.5°	0.0	0.0	95.8	42.9	10.1	10.1	17.7	17.7	20.2	17.7	20.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6533.4	6533.4	6533.4	6533.4	6533.4	6533.4	6533.4	6533.4	6533.4	6533.4	6533.4
2.5°	6583.8	6596.5	6548.5	6480.5	6407.3	6334.2	6230.8	6137.5	6082.1	6114.8	6034.1
5°	6702.4	6692.3	6566.2	6359.4	6084.6	5754.2	5426.4	5146.5	5055.8	4919.6	4904.5
7.5°	6866.3	6838.5	6571.2	6097.2	5476.9	4856.6	4251.4	3850.5	3621.0	3426.8	3431.9
10°	7095.7	7015.0	6513.2	5635.7	4614.5	3679.0	2907.4	2377.8	2148.4	2075.3	2017.3
12.5°	7332.8	7176.4	6351.9	5012.9	3593.3	2514.0	1767.6	1444.9	1303.7	1258.3	1253.2
15°	7544.6	7297.5	6069.4	4264.0	2612.4	1606.2	1205.3	1099.4	1081.8	1084.3	1081.8
17.5°	7753.9	7393.3	5678.6	3469.7	1775.2	1152.4	1036.4	1011.2	1018.7	1028.8	1026.3
20°	7927.8	7413.4	5179.3	2647.7	1255.7	1011.2	973.3	968.3	975.9	983.4	983.4
22.5°	8117.0	7428.6	4586.8	1833.2	1026.3	940.5	920.4	920.4	930.5	940.5	943.1
25°	8258.2	7345.4	3878.2	1316.3	905.2	872.5	862.4	864.9	875.0	880.0	877.5
27.5°	8280.9	7110.9	3126.8	1008.6	822.0	789.3	779.2	789.3	776.6	784.2	779.2
30°	8301.0	6813.3	2365.2	849.8	746.4	696.0	680.8	665.7	655.6	643.0	640.5
32.5°	8364.1	6462.8	1727.3	764.0	675.8	620.3	585.0	542.1	509.4	499.3	496.8
35°	8391.8	6041.7	1268.4	696.0	612.7	552.2	489.2	428.7	380.8	363.1	375.7
37.5°	8497.7	5633.2	983.4	645.5	557.3	481.6	400.9	325.3	279.9	269.8	274.9
40°	8714.6	5189.4	824.6	602.7	509.4	416.1	317.7	244.6	214.3	204.2	201.7
42.5°	9062.6	4748.1	733.8	562.3	461.4	350.5	249.6	191.6	166.4	158.9	158.9
45°	9486.2	4324.5	670.7	519.4	411.0	282.4	196.7	153.8	138.7	133.6	133.6
47.5°	10043.5	3953.8	617.8	476.6	355.5	224.4	158.9	133.6	123.6	126.1	128.6
50°	10608.3	3679.0	559.8	428.7	292.5	184.1	136.2	118.5	116.0	118.5	118.5
52.5°	11034.4	3517.6	481.6	363.1	229.5	153.8	121.0	110.9	108.4	103.4	103.4
55°	11609.4	3482.3	383.3	295.0	181.6	128.6	108.4	100.9	93.3	88.3	85.7
57.5°	12348.2	3522.6	295.0	229.5	141.2	105.9	95.8	83.2	73.1	63.0	63.0
60°	12807.1	3431.9	229.5	176.5	103.4	85.7	73.1	60.5	47.9	40.3	37.8
62.5°	12660.9	3048.6	181.6	131.1	73.1	63.0	47.9	40.3	27.7	20.2	17.7
65°	11906.9	2461.1	146.3	90.8	53.0	37.8	25.2	25.2	12.6	2.5	0.0
67.5°	10421.7	1823.1	116.0	60.5	30.3	17.7	12.6	7.6	0.0	0.0	0.0
70°	8482.6	1316.3	90.8	37.8	17.7	12.6	5.0	2.5	0.0	0.0	0.0
72.5°	5386.1	754.0	70.6	22.7	12.6	5.0	0.0	0.0	0.0	0.0	0.0
75°	2082.8	295.0	47.9	15.1	5.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	590.0	138.7	27.7	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	153.8	60.5	15.1	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	73.1	25.2	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	42.9	10.1	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.2	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)